



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RBT18205
Job Sheet 168015



NCL-19-7385

Part No: RBT18205

Job Qty: 1 ea

Part Name: Hydraulic Filter Bowl Wrench



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/9/17

Job Tracking No:

Due Date: 11/20/17

Created By: Marie Lajeunesse

Type: Stock

Description:

Customer: Hell Centre Australia Pty Ltd (CHCEN07)

PO Box 4018 Mackay, Queensland, 4740 Australia ph:+61 7 4944 0455

Note: DWG RBT18205 Rev C. IPP Rev.A 17.09.05 New issue DP Verify DD/IPP Rev B 17.12.04 DWG Rev. C DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		11/18/17	0.00	0.00	Start Up Small Fab		ML
100	Small Fab	1 pcs		11/20/17	0.00	1.00	Small Fab		ML DAE
120	QC	1 pcs		11/20/17	0.00	0.00	QC5		38
130	Packaging	1 pcs		11/20/17	0.00	0.00	Packaging3	GA	A7
140	QC21-FG	1 Ea		11/20/17	0.00	0.00	QC21		JAN 11 2016

Part Op 100 - 1-Engrave placard RB41011 using marktronic engraver as per Dart QSI 044 2-Transfer drill Dart placard RB41011
Descriptions: into Pelican case APP-1040-E 3-Deburr holes and remove chips from case. 4-Rivet Dart placard to Pelican case 5-Glue foam and pack case as per DWG.

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	97524A032	4	116	0	0
	APP-1040-E	1	1	0	0
	RB41011	1	968	0	0
	RBT18205-1	1	1	0	0
	RBT18205-3	1	1	0	0
	RBT18205-4	1	1	0	0

*USE -4 THIS TIME ONLY
VIT 12/18/2017*

Part Specifications

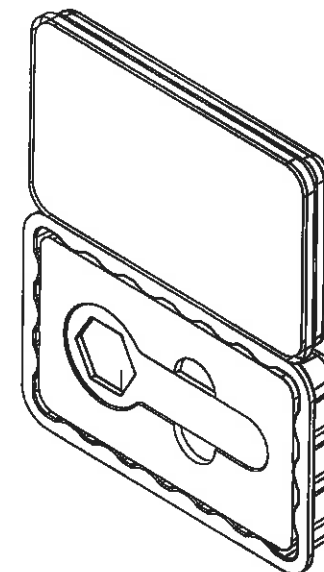
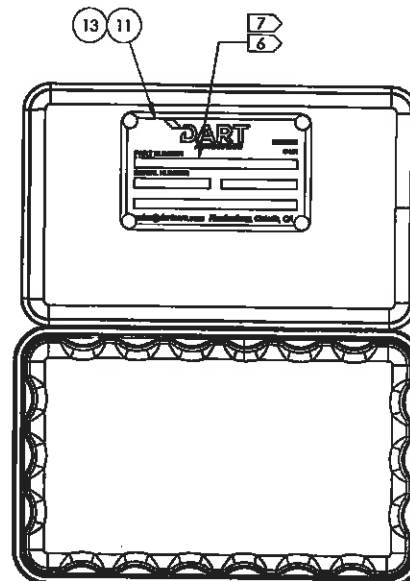
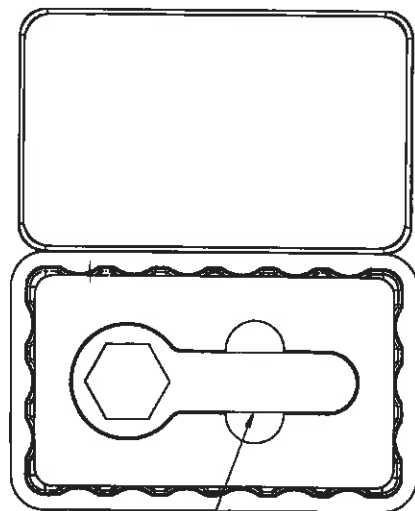
Specifications could not be found.

Plex 12/18/17 1:16 PM Dart.lajeunesse.marie

P.T.O.

ITEM #	QTY	PART #	TITLE	PG
-1	1	RBT18205-1	WRENCH	2
-9	1	RBT18205-9	PACKAGING ASSY	3
11	1	RB41011	DART PLACARD	-
13	4	McMaster#97524A032	RIVET 1/8" x 0.425" LG.	-

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
1	RELEASE FOR PRODUCTION	-	11/9/2016	RJC	JAG
B	DART PLACARD ADDED, TEMPLATE UPDATED, PACKAGING ASSY ADDED -9	17-630	17.08.05	VM	WM
C	RENUMBERING ITEM # TO PREVIOUS REV 1, NOTE 8 & 8 ADDED, ITEM 13 RIVETS ADDED, NOTE 6 ON -1 CHANGED, NOTES ON -9 ADDED	17-661	17.11.28	VM	WM

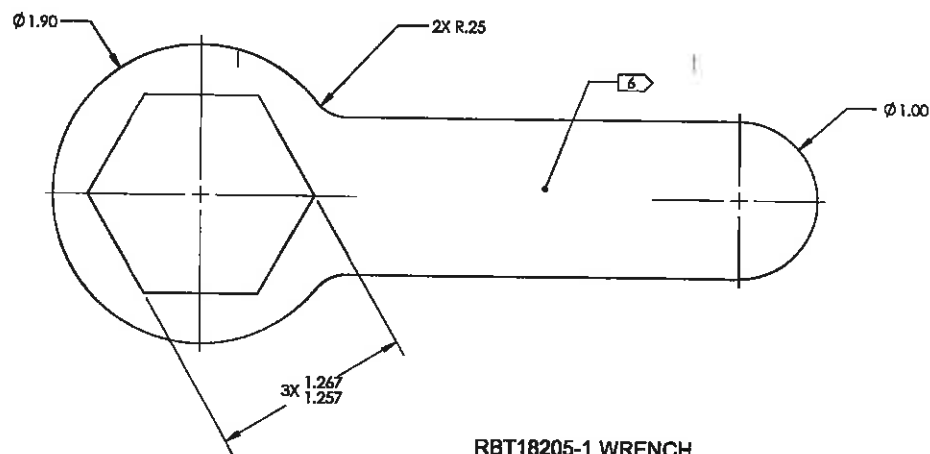
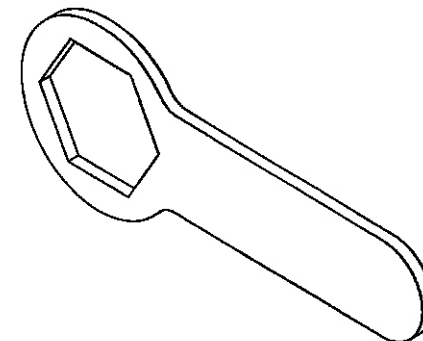
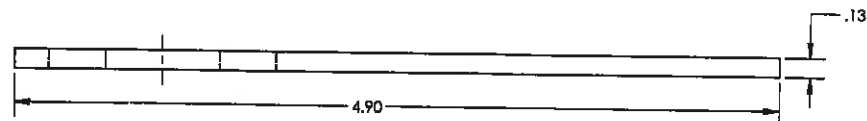


NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) HEAT TREAT: N/A
- 4) SPEC: N/A
- 5) BREAK ALL SHARP EDGES : N/A
- 6) IDENTIFICATION: ENGRAVE PN & SN WHERE INDICATED PRIOR INSTALLATING THE DART PLACARD ONTO THE TOP LID OF THE PELICAN CASE
- 7) INSTALL RB41011 PLACARD IN THE AVAILABLE AREA ON THE LID OF THE PELICAN CASE PRIOR TO GLUING THE RBT18205-3 BOTTOM FOAM AND THE RBT18205-5 TOP FOAM TO THE PELICAN CASE
- 8) HOT GLUE -3 BOTTOM FOAM AND -5 TOP FOAM INTO THE PELICAN CASE
- 9) REFERENCE ERA T/N ST13059-ERA

RBT18205 HYDRAULIC FILTER BOWL WRENCH

DART AEROSPACE		Hamilton, Ontario, Canada	
TITLE HYDRAULIC FILTER BOWL WRENCH			
DWG NO. RBT18205		REV C	
DESIGN BY: VM 9/5/2017	DATE: 11/28/2017	SCALE: NTS	WEIGHT: SHEET 1 OF 5
DRAWN BY: VM 11/28/2017	CHECKED BY: WM 11/30/2017	APPROVED BY: PD 9/15/2017	DATE: 11/28/2017
1. DIMENSIONS ARE IN INCHES		2. DIMENSIONS ARE IN MILLIMETERS	
3. DIMENSIONS ARE IN MILLIMETERS		4. DIMENSIONS ARE IN MILLIMETERS	
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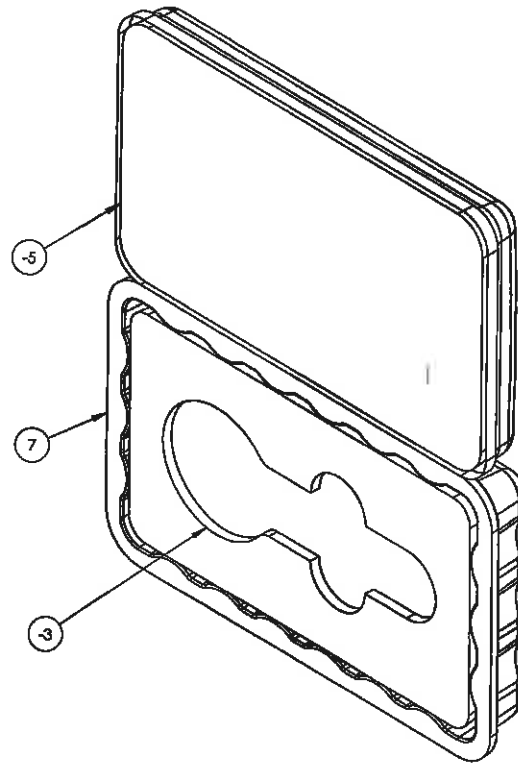


RBT18205-1 WRENCH

- NOTES:**
- 1) MATERIAL: 6061-T6
 - 2) HEAT TREAT: N/A
 - 3) FINISH: CLEAR ANODIZE
 - 4) SPEC: MIL-A-8625, TYPE II, CLASS 1; WATER SEALANT
 - 5) BREAK ALL SHARP EDGES .015 x 45° OR .015R
 - 6) IDENTIFICATION: ENGRAVE T/N "RBT18205" & S/N

DART AEROSPACE Newbury, Ontario, Canada	
WRENCH	
DATE: 11/28/2017	REV: C
DESIGN BY: VM 9/5/2017	JOCK: 2.000 FRACTIONS: 2 1/8
DRAWN BY: VM 11/28/2017	JOCK: 2.000 ANGLES: 45°
CHECKED: WM 11/30/2017	JOCK: 2.000 SURFACES: 42°
MFG. APPR: DD 12/01/2017	1. DIMENSIONS ARE IN INCHES
QA APPR: PD 09/15/2017	2. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE: 11/28/2017	3. DIMENSIONAL LIMITS APPLY
SCALE: NTS	WEIGHT: SHEET 2 OF 5
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ITEM #	QTY	PART #	TITLE	PG
-3	1	RBT18205-3	BOTTOM FOAM	4
-5	1	RBT18205-5	TOP FOAM	5
7	1	PELICAN #APP-1040-E	PELICAN CASE	-



RBT18205-9 PACKAGING ASSY

NOTES:

- 1) MATERIAL: N/A
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) SPEC: N/A
- 5) BREAK ALL SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A

DART AEROSPACE Mississauga, Ontario, Canada			
PACKAGING ASSY			
DWG NO.		REV	
RBT18205-9		C	
DESIGN BY:	WM 8/5/2017	JOCK 2.288	FRACTIONS 2/16
DRAWN BY:	WM 11/28/2017	JK 2.41	ANGLES 2.1°
CHECKED:	WM 11/30/2017	2	SURFACES 128
MFG. APPR:	DD 12/01/2017	1. DIMENSIONS ARE IN INCHES	
QA APPR:	PD 8/15/2017	2. INTERPRET DIM AND TOL PER ASMR Y14.33-2009	
APPROVED:	WM 12/01/2017	3. DIMENSIONAL LIMITS APPLY AFTER PLATING	
DATE: 11/28/2017	SCALE: NTS	WEIGHT: N/A	SHEET 3 OF 5
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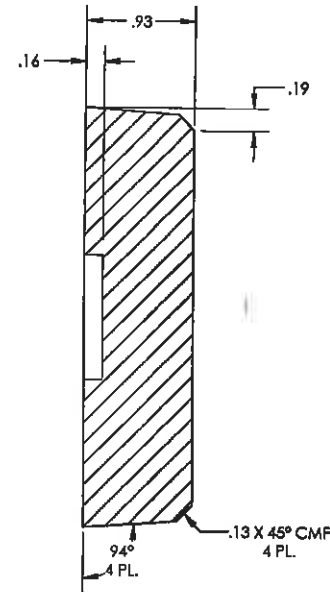
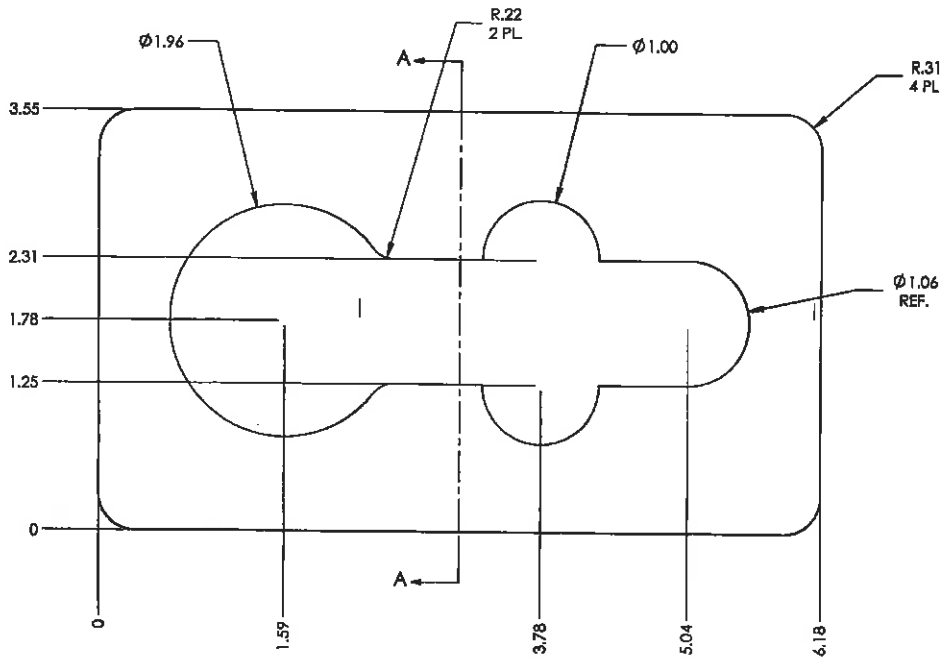
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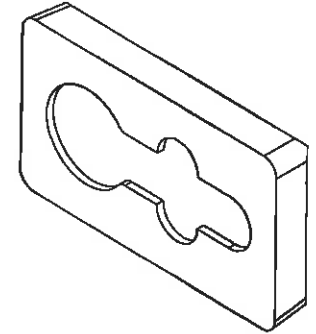
C

B

A



SECTION A-A



RBT18205-3 BOTTOM FOAM

- NOTES:**
 1) MATERIAL: ETHAFOAM 220, BLACK
 2) FINISH: N/A
 3) HEAT TREAT: N/A
 4) SPEC: N/A
 5) BREAK ALL SHARP EDGES: N/A
 6) IDENTIFICATION: N/A

DART AEROSPACE Hamilton, Ontario, Canada			
TITLE BOTTOM FOAM			
DWG NO. RBT18205-3		REV C	
DESIGN BY: VM 11/28/2017	CHK'D BY: VM 11/28/2017	30X 2 .305	FRACTIONS & 1/8
DRAWN BY: VM 11/28/2017	CHECKED: VM 11/30/2017	30X 2 .31	ANGLES & 5°
DATE: 11/28/2017	DATE: 11/28/2017	30X 2 .31	SURFACES & 1/16"
Q/A APPR: DD 12/01/2017	PD 09/15/2017	1. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED	
APPROVED: VM 12/01/2017	DATE: 11/28/2017	2. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
SCALE: NTS	WEIGHT:	3. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SHEET 4 OF 5			
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8 7 6 5 4 3 2 1



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RBT18205
Job Sheet 168015



Part No: RBT18205

Job Qty: 1 ea

Part Name: Hydraulic Filter Bowl Wrench



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/9/17

Job Tracking No:

Due Date: 11/20/17

Created By: Marie Lajeunesse

Type: Stock

Description:

Customer: Heli Centre Australia Pty Ltd (CHCEN07)

PO Box 4018 Mackay, Queensland, 4740 Australia ph:+61 7 4944 0455

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		11/18/17	0.00	0.00	Start Up Small Fab		ML
100	Small Fab ★ PTD	1 pcs		11/20/17	0.00	1.00	Small Fab		ML
120	QC	1 pcs		11/20/17	0.00	0.00	QC5		
130	Packaging	1 pcs		11/20/17	0.00	0.00	Packaging3		
140	QC21-FG	1 Ea		11/20/17	0.00	0.00	QC21		

Part Op 100 - 1-Engrave placard RB41011 using marktronic engraver as per Dart QSI 044 2-Transfer drill Dart placard RB41011
Descriptions: into Pelican case APP-1040-E 3-Deburr holes and remove chips from case. 4-Rivet Dart placard to Pelican case 5-Glue foam and pack case as per DWG.

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	97524A032 CA FN 138381	4	200	0	0
	APP-1040-E S015910	1	0	0	0
	RB41011 placard Alu S015627	1	0	0	0
	RBT18205-1 S014896	1	0	0	0
	RBT18205-3	1	0	0	0
	RBT18205-5	1	0	0	0

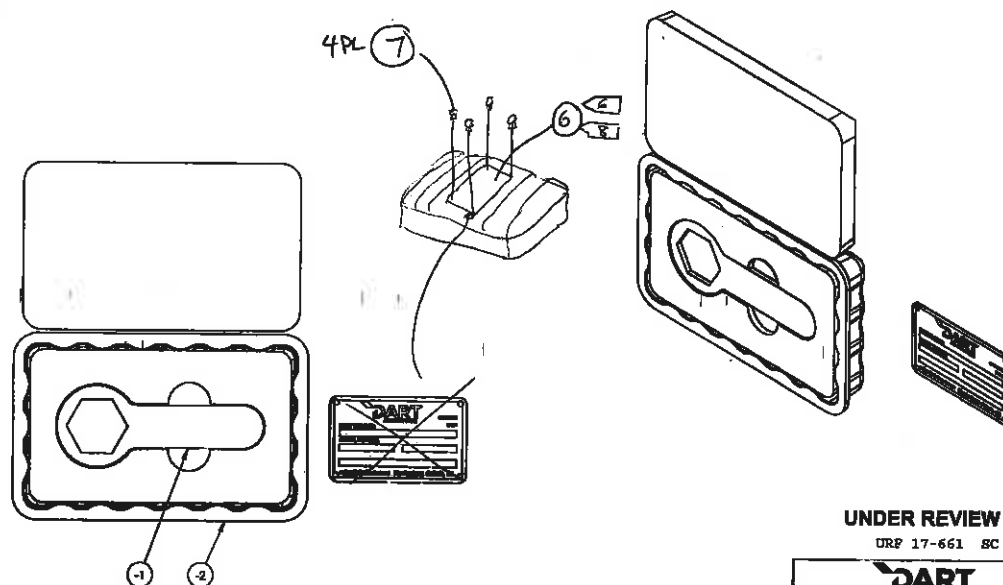
Part Specifications

Specifications could not be found.

Plex 11/9/17 1:12 PM Dart.lajeunesse.marie

ITEM #	QTY	PART #	TEXT	PG
1	1	RTB18205-1	WRENCH	2
2	1	RTB18205-2	WRENCH	2
6	1	RTB18205-6	DART PLACARD	1
7	4	RM 97524A032	RIVETS	1

REV.	DESCRIPTION	DATE	BY	APPROVED
1	RELEASED FOR PRODUCTION	11/8/2018	RJC	JAG
B	SEE ECRN 17-630	17.09.05	VM	WM



RBT18205 HYDRAULIC FILTER BOWL WRENCH

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: N/A
 - 3) HEAT TREAT: N/A
 - 4) SPEC: N/A
 - 5) BREAK ALL SHARP EDGES: N/A
 - 6) IDENTIFICATION: N/A ENGRAVE PART NUMBER "RBT18205" AND SERIAL NUMBER IN MARKED FIELDS
 - 7) REFERENCE GRA VIN 610300-ERA
 - 8) INSTALL RM41011 PLACARD PRIOR TO GLUING THE RBT18205-3 BOTTOM FOAM AND THE RBT18205-4 TOP FOAM TO THE PELICAN CASE

UNDER REVIEW
URP 17-661 SC

DART Hydraulic Filter Bowl Wrench			
RBT18205			
REV. 001	1/11/2017	REV. 001	1/11/2017
REV. 002	1/11/2017	REV. 002	1/11/2017
REV. 003	1/11/2017	REV. 003	1/11/2017
REV. 004	1/11/2017	REV. 004	1/11/2017
REV. 005	1/11/2017	REV. 005	1/11/2017
REV. 006	1/11/2017	REV. 006	1/11/2017
REV. 007	1/11/2017	REV. 007	1/11/2017
REV. 008	1/11/2017	REV. 008	1/11/2017
REV. 009	1/11/2017	REV. 009	1/11/2017
REV. 010	1/11/2017	REV. 010	1/11/2017

for
No. 18205

DQA:

Date:

1E Oct 3/19.



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date:

NCR-19-7385

Work Order update only ☐

Work Order: <u>168015</u> Part No. <u>RBT18205</u> NCR No.		DISPOSITION Rework ☒ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Cross tube ☐ Water Jet ☐ Engineering ☒ <i>NCR</i> Machining ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Quality ☐ Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐ Large Fab ☐ Composite ☐ Supplier ☐					
Date: <u>17/11/9</u>		Step #: <u>100</u>		QTY Effective: <u>1</u>			MRB (QSI042) Approval DAS 12 9-89 17/11/9		
Description Work Order Deviation				Disposition				Completed By MCC 17/11/9	
INSTALL PLACARD WITH RIVETS PER MARKED-UP DLG (Attached). Job No: 168015 Mfg Date: 12/21/17				Acceptable Non-airworthy tooling.				Lead hand / Supervisor Approval Verification DAS 30 9-89 JUL 26 2019	
								QC / QA Coordinator Approval DAS 68 9-89 JUL 26 2019	

Start up Operation

PART NO: RBT18205

Hydraulic Filter Bowl Wrench



S026167

AEROSPACE



CATEGORY

☐	Power Loss/Surge	☐	Positioned Wrong
☐	Folio/Program	☐	Outside Dimensions
☐	Grain	☐	Over/Under tolerance
☐	Weld	☐	Part Incorrect
☐	Wrong Stock Pulled	☐	Part Lost/Missing
☐	Out of Sequence	☐	Part Moved
☐	Off-set	☒	Drawing
☐	Mislabeled	☐	Finish
☐	Fit/Function	☐	Misread
☐	Misaligned/off center	☐	Turning Sequence

H:/FOR

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